

Section I (Amendments to the Claims)

Please cancel claim 59 without prejudice, amend claims 1, 4, 30, 32, 37, 47, 54, 55, 57 and 58, and add new claim 61, as set forth in the following listing of the claims.

1. (Currently amended) A method of capturing and monitoring at least one physiological parameter and movement within an area of at least one person, the method comprising:

dividing the area into cells having respective location identifiers by providing a plurality of access stations in a spatial arrangement within the area, thereby dividing the area into cells;

providing each person with a respective device for measuring at least one physiological parameter of each person, the physiological parameter being indicative of whether the person has a physical condition, each device having a device identifier;

at least intermittently measuring a physiological parameter of each person using the respective device to obtain a physiological parameter reading for each measurement;

associating each of at least a selected number of physiological parameter readings with the respective device identifier of the device by which, the respective location identifier of the cell in which, and a time at which the physiological parameter reading is obtained;

adjusting the physiological parameter reading by a physiological parameter correction factor that is individually determined for the person; and

storing the associated physiological parameter reading, device identifier, location identifier and time;

comparing the physiological parameter reading with a ~~first~~ ~~second~~ ~~predetermined~~ physiological parameter threshold value to determine if the person ~~is wearing the device properly; has a physical condition~~, wherein the physiological parameter is body temperature,

wherein the second predetermined physiological parameter threshold value is calculated using equation of $T = \mu + k\sigma$, wherein T represents the second predetermined physiological parameter threshold value, μ represents the mean value of a predetermined number of readings of the physiological parameter, k represents a positive number up to 3, and σ represents the standard deviation of the predetermined number of readings of the physiological parameter.

2. (Original) The method according to Claim 1, wherein the monitoring is carried out from a remote location, the method further comprising:

transmitting the associated physiological parameter reading, device identifier, location identifier and time to the remote location prior to storing them thereat.

3. (Cancelled)

4. (Currently amended) A method according to Claim 61 [[1]], further comprising identifying and locating the person using the device identifier and the location identifier associated with the physiological parameter reading if the person is determined not to be wearing the device properly.

5. (Cancelled)

6. (Previously presented) A method according to Claim 1, further comprising identifying and locating the person using the device identifier and the location identifier associated with the physiological parameter reading if the person is determined to have the physical condition.

7. (Previously presented) A method according to Claim 1, wherein the second predetermined physiological parameter threshold value is predetermined individually.

8. (Cancelled)

9. (Previously presented) The method according to Claim 6, further comprising:

matching a time and location identifier associated with at least one physiological parameter reading taken from a respective device of at least one other person with those of the identified and located person; and

identifying the other person to have been in physical proximity of the identified and located person if there is a match.

10-29. (Cancelled)

30. (Currently amended) A system for capturing and monitoring at least one physiological parameter and movement within an area of at least one person comprising:

a remote control unit; and

a plurality of access stations provided in a spatial arrangement within the area, thereby dividing the area into respective cells, wherein each access station has a respective station identifier, is connected to the control unit and is adapted to receive a physiological parameter reading and a respective device identifier from at least one physiological parameter measuring device attached to a first person, and to transmit the received physiological parameter reading and the device identifier along with its station identifier to the control unit;

wherein the physiological parameter reading, device identifier, station identifier and a time at which the physiological parameter reading is obtained by the device are stored in a first record at the control unit, and

wherein the control unit is adapted to match a date, time and location identifier of a second record obtained from another respective device of a second person with those in the first record; and to identify the second person to be in physical proximity of the first person if there is a match

wherein the physiological parameter reading is adjusted to include a physiological parameter correction factor that is individually determined for the first person;

wherein the control unit is adapted to ~~compare the physiological parameter reading with a first second~~ predetermined physiological parameter threshold value to determine if the ~~first~~ person is ~~wearing the device properly, has a physical condition,~~ wherein the physiological parameter is body temperature,

wherein the second predetermined physiological parameter threshold value is calculated using equation of $T = \mu + k\sigma$, wherein T represents the second predetermined physiological parameter threshold value, μ represents the mean value of a predetermined number of readings of the physiological parameter, k represents a positive number up to 3, and σ represents the standard deviation of the predetermined number of readings of the physiological parameter.

31. (Cancelled)

32. (Currently amended) The system according to Claim 30 60, wherein the control unit is further adapted to provide information corresponding to the device identifier and the location identifier associated with the physiological parameter reading for identifying and locating the first person if the first person is determined not to be wearing the device properly.

33. (Cancelled)

34. (Previously presented) The system according to Claim 30, wherein the control unit is further adapted to provide information corresponding to the device identifier and the location identifier associated with the physiological parameter reading for identifying and locating the first person if the first person is determined to have the physical condition.

35. (Previously presented) The system according to Claim 30, wherein the second predetermined physiological parameter threshold is predetermined individually for the first person.

36. (Cancelled)

37. (Currently amended) The system according to Claim 30 60, wherein the control unit is adapted to generate an alert message if the first person is determined either not to be wearing the device properly or to have the physical condition, the alert message including information corresponding to the station identifier and the device identifier.

38. (Previously presented) The system according to Claim 37, wherein the alert message is sent to a predetermined recipient via a communication network to which the control unit is connectable.

39. (Previously presented) The system according to Claim 38, wherein the communication network is a public communication network.

40. (Previously presented) The system according to Claim 30, wherein the control unit is adapted to instruct the device to transmit its device identifier and a physiological parameter reading measured therewith.

41. (Previously presented) The system according to Claim 40, wherein the control unit is adapted to instruct the device by broadcasting a corresponding instruction via at least one

selected access station, the instruction being receivable by all devices in a coverage area of the at least one selected access station.

42. (Previously presented) The system according to Claim 30, further comprising at least one physiological parameter measuring device that is attachable to the first person for monitoring at least one physiological parameter of the first person, each device having a device identifier and being connected to the respective access station of the cell when it is within the cell.

43-46. (Cancelled)

47. (Currently amended) A system for capturing and monitoring at least one physiological parameter and movement within an area of at least one person comprising:
a remote control unit; and

a plurality of access stations provided in a spatial arrangement within the area, thereby dividing the area into respective cells, wherein each access station has a respective station identifier, is connected to the control unit and is adapted to receive a physiological parameter reading and a respective device identifier from at least one physiological parameter measuring device attached to a first person, and to transmit the received physiological parameter reading and the device identifier along with its station identifier to the control unit;

wherein the physiological parameter reading, device identifier, station identifier and a time at which the physiological parameter reading is obtained by the device are stored in a first record at the control unit;

wherein the physiological parameter reading is adjusted to include a physiological parameter correction factor that is individually determined for the first person;

wherein the control unit is adapted to compare the physiological parameter reading with a ~~first~~second predetermined physiological parameter threshold value to determine if the ~~first~~ person ~~is wearing the device properly, has a physical condition,~~ wherein the physiological parameter is body temperature.

48. (Previously presented) The system according to Claim 47, further comprising at least one physiological parameter measuring device that is attachable to the first person for monitoring at least one physiological parameter of the first person, each device having a device identifier and being connected to the respective access station of the cell when it is within the cell.

49. (Previously presented) The system according to Claim 47, wherein the control unit is adapted to provide information corresponding to the device identifier and the station identifier associated with the physiological parameter reading for identifying and locating the first person.

50. (Previously presented) The system according to Claim 48, wherein the physiological parameter measuring device comprises:

a transducer;

a transmitter; and

a processor connected to the transducer and the transmitter, the processor being adapted to control the transducer to at least intermittently measure a physiological parameter of the first person and to control the transmitter to transmit a reading corresponding to the measured physiological parameter.

51. (Previously presented) The system according to Claim 50, wherein the physiological parameter measuring device is adapted to be attached to the first person such that it is capable of measuring a physiological parameter at the abdomen of said person.

52. (Previously presented) The system according to Claim 47, wherein the physiological parameter measured is the body temperature of the first person, and wherein the physiological parameter correction factor is determined from the difference between the oral temperature and the abdomen temperature of the first person.

53. (Previously presented) The system according to claim 47, wherein the control unit is adapted to match a date, time and location identifier of a second record obtained from another respective device of a second person with those in the first record; and to identify the second person to be in physical proximity of the first person if there is a match.

54. (Currently amended) A system for capturing and monitoring at least one physiological parameter and movement within an area of at least one person comprising:

a remote control unit;

a plurality of access stations provided in a spatial arrangement within the area, thereby dividing the area into respective cells, wherein each access station has a respective station identifier and is connected to the control unit; and

at least one physiological parameter measuring device that is attachable to the a first person for measuring at least one physiological parameter of the first person to obtain a physiological parameter reading, each device having a device identifier and being connected to the respective access station of the cell when it is within the cell;

wherein each access station is adapted to receive said physiological parameter reading and said respective device identifier from said at least one physiological parameter measuring device, and to transmit the received physiological parameter reading and the device identifier along with its station identifier to the control unit;

wherein the physiological parameter reading, device identifier, station identifier and a time at which the physiological parameter reading is obtained by the device are stored in a first record at the control unit;

~~wherein the control unit is adapted to provide information corresponding to the device identifier and the station identifier associated with the physiological parameter reading for identifying and locating the first person;~~

~~wherein the physiological parameter measuring device is adapted to be attached to the first person such that it is capable of measuring a physiological parameter when in contact with the abdomen of said person;~~

~~wherein the physiological parameter reading is adjusted to include a physiological parameter correction factor that is individually determined for the first person~~

wherein the at least one physiological parameter measuring device comprises:

a transducer;

a transmitter; and

a processor connected to the transducer and the transmitter,

said physiological parameter measuring device further comprising a housing including:

a first portion;

a second portion; and

a flexible medial portion connected between the first and the second portion,

wherein the processor, transmitter and receiver are accommodated within the first housing portion and the transducer is supported on the second housing portion.

55. (Currently amended) The system of according to Claim 54, wherein the physiological parameter measuring device comprises:

— a transducer;

_____ a transmitter; and

~~a processor connected to the transducer and the transmitter, the processor being adapted to control the transducer to at least intermittently measure a physiological parameter of the first person and to control the transmitter to transmit a physiological parameter reading corresponding to the measured physiological parameter.~~

56. (Cancelled)

57. (Currently amended) The system according to Claim 54, wherein the physiological parameter measured is ~~the~~ a body temperature of the first person, and wherein ~~the~~ a physiological parameter correction factor is determined from the difference between ~~the~~ an oral temperature and ~~the~~ an abdomen temperature of the first person.

58. (Currently amended) The system according to Claim 54, wherein the control unit is adapted to match a date, time and location identifier of a second record obtained from ~~another respective~~ a second physiological parameter measuring device of a second person with those in the first record; and to identify the second person to be in physical proximity of the first person if there is a match.

59. (Cancelled)

60. (Previously presented) The system according to claim 30, wherein the control unit is adapted to compare the physiological parameter reading with a first predetermined physiological parameter threshold value to determine if the first person is wearing the device properly.

61. (New) The method according to claim 1, comprising comparing the physiological parameter reading with a first predetermined physiological parameter threshold value to determine if the person is wearing the device properly.